

ABSTRACT OF THE DISCLOSURE

A digital video system for wirelessly transmitting a signal to a display device, including a receiver that analyzes a packet of the signal wirelessly received through a first transmitting/receiving unit to check the transmission error rate. The receiver externally sends out a grade adjustment request signal requesting up-adjustment or down-adjustment of a resolution grade of the signal through the first transmitting/receiving unit, based on the checked transmission error rate and a resolution grade of the currently received signal. A transmitter converts the signal to be transmitted to the receiver into a signal that corresponds to the grade adjustment request signal of the receiver, and wirelessly transmits the converted signal through a second transmitting/receiving unit corresponding to the first transmitting/receiving unit. The digital video system adjusts the grade of the signals to be transmitted based on changes in the wireless communication environment, to maintain the signal transmission rate within a range.